

三合一天线规格书

3-in-1 antenna specification

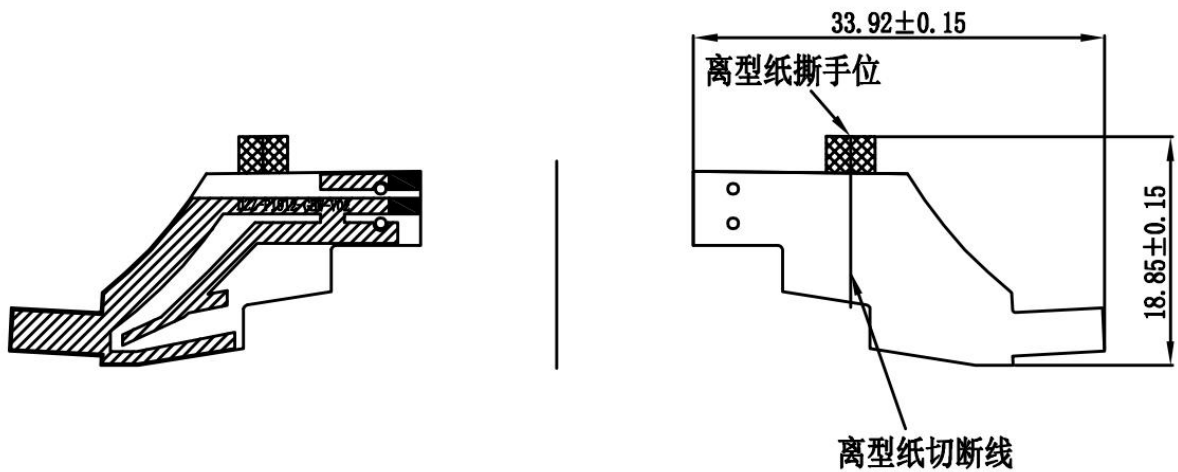
基本信息

General information

制造商 Manufacturer	Be-comfortable
天线型号 Model Name	P1912-GPS&WIFI&BT ant
日期 Date	2023.10.09
版本 Version	1.0
制造商地址 Vendor address	Building C6, Hengfeng Industrial City, Zhoushi Road, Xixiang Town, Baoan District, Shenzhen

天线外观

Antenna Appearance



技术规格

Technical Specifications

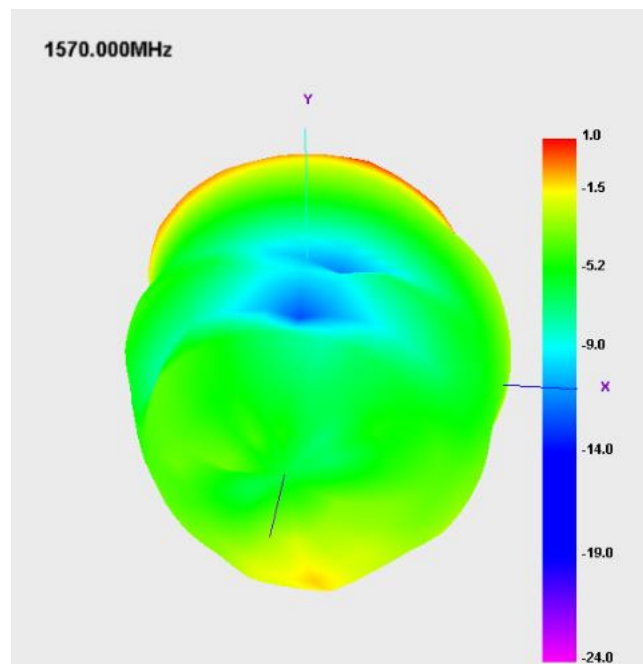
频率范围 Frequency Range	1575.42MHZ+2400-2500MHZ~5150-5850MHZ
天线类型 Antenna Type	IFA
尺寸 Dimensions	33.92*18.85mm
阻抗 Impedance	50 ohm
最大增益 Maximum Gain	3.66dbi
驻波比 VSWR	≤ 3
.....	

Efficiency and gain

Frequency (MHz)	Gain (dBi)	Efficiency (%)
1540	1.66	37.79
1550	1.84	39.92
1560	1.88	41.58
1570	1.94	42.5
1580	1.89	40.84
1590	1.81	40.98
1600	1.64	39.03

Frequency (MHz)	Gain (dBi)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	1.43	33.12	5100	3.17	40.12
2410	1.5	35.74	5200	3.12	39.54
2420	1.41	36.19	5300	2.14	35.86
2430	1.37	37.04	5400	3.42	37.14
2440	1.6	38.02	5500	3.66	37.25
2450	1.98	39.28	5600	3.54	41.66
2460	1.91	38.94	5700	3.43	43.48
2470	1.66	37.59	5800	3.31	42.68
2480	1.8	35.21	5900	3.36	42.71
2490	1.66	35.85			
2500	1.44	34.3			

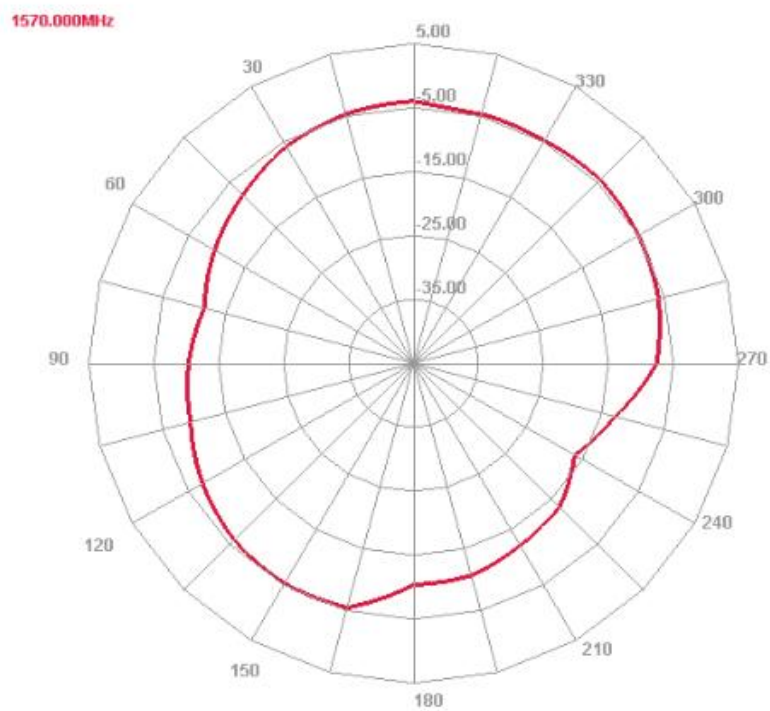
Free space 3D radiation pattern



Free space 2D radiation pattern

X-Y Plane
H Theta=90

Horizontal

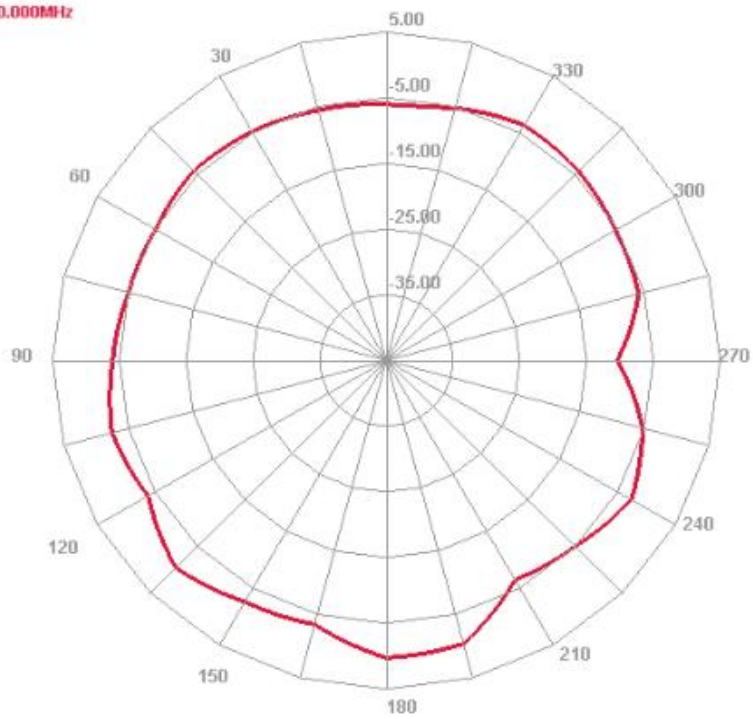


X-Z Plane

V Phi=0

E1 Face

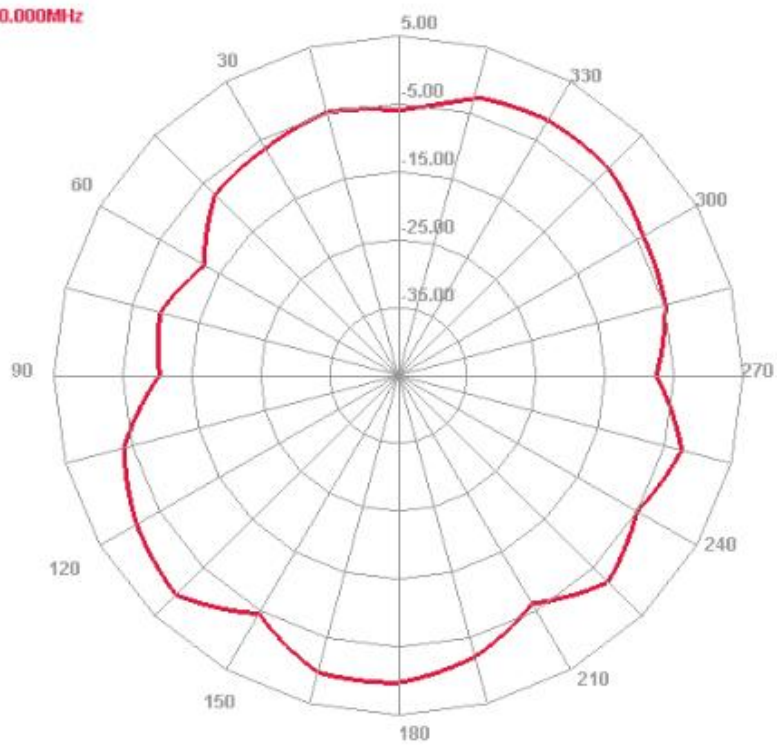
1570.000MHz

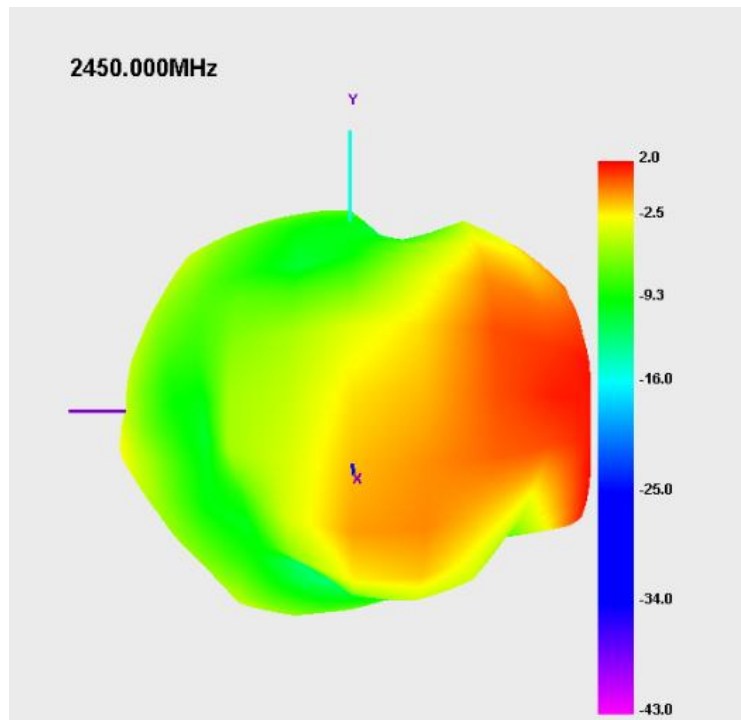


Y-Z Plane
V Phi=90

E2 Face

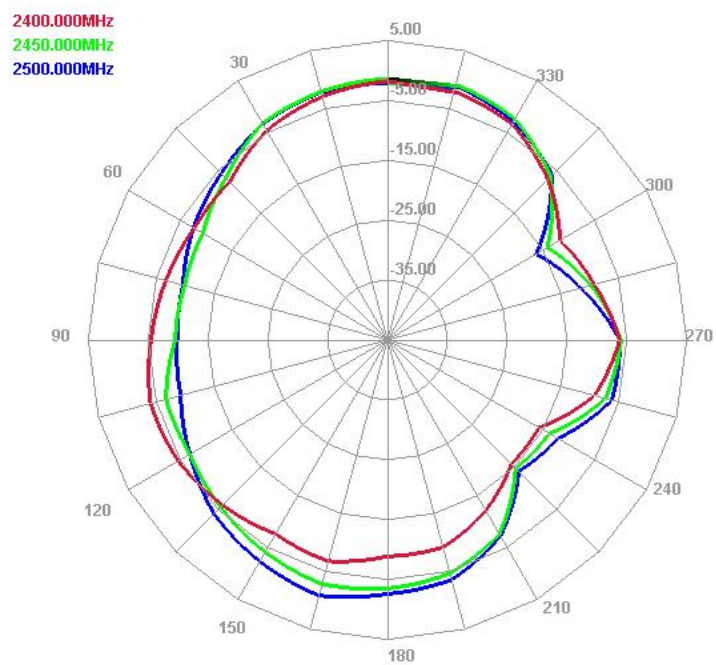
1570.000MHz





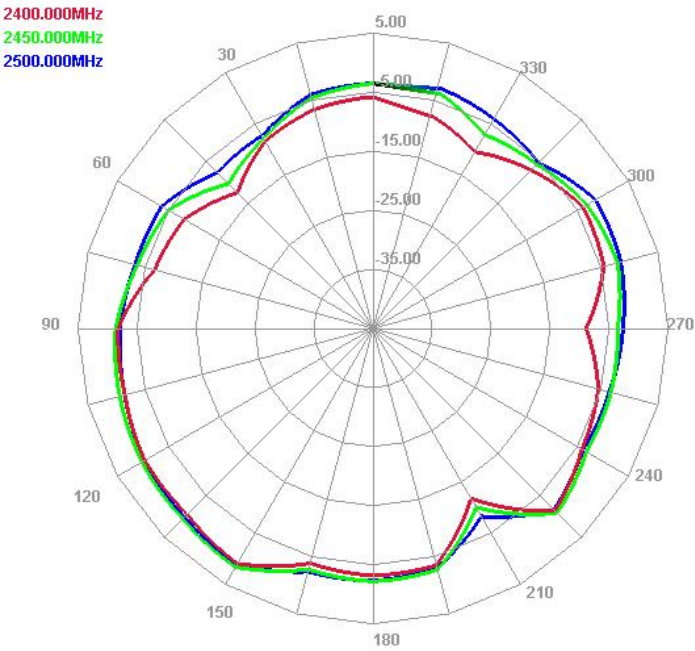
**X-Y Plane
H Theta=90**

Horizontal



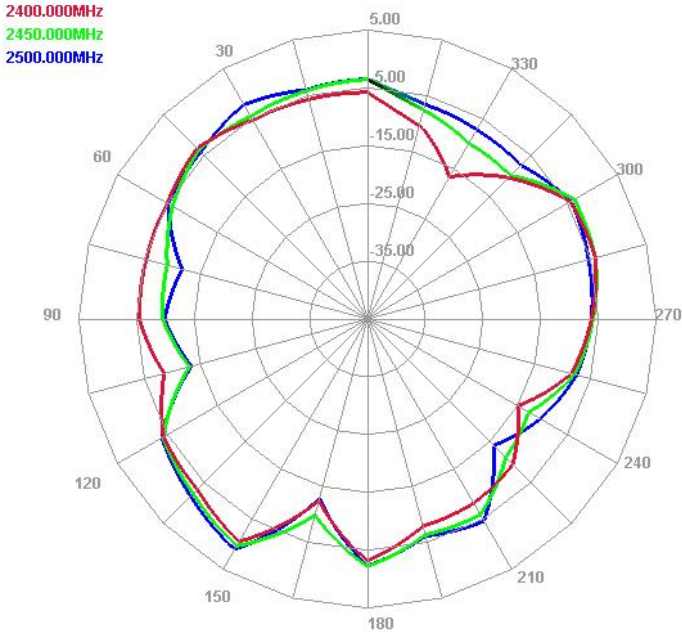
**X-Z Plane
V Phi=0**

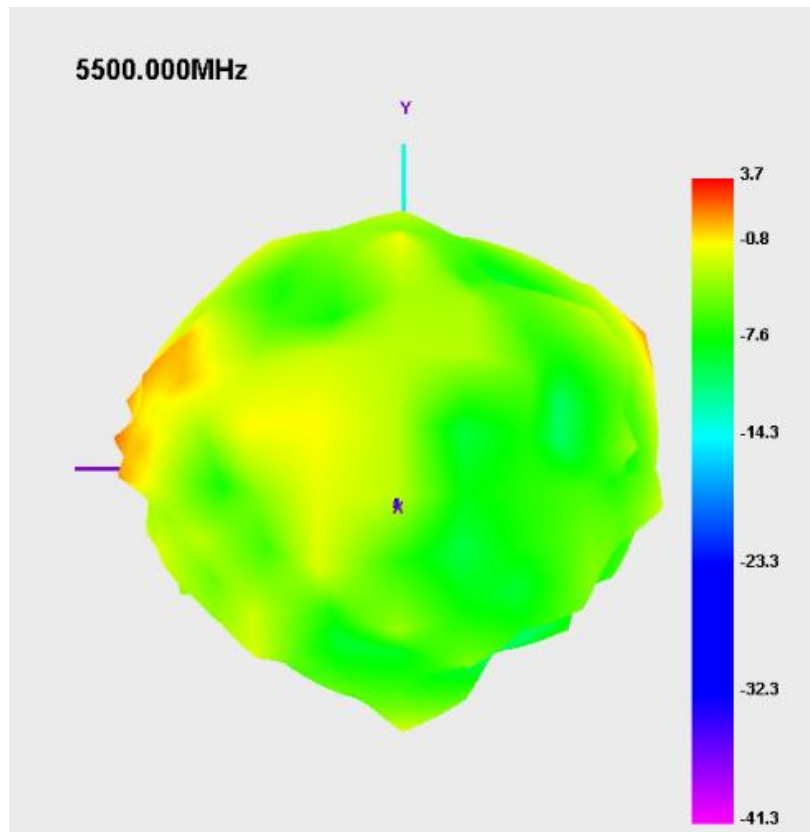
E1 Face



**Y-Z Plane
V Phi=90**

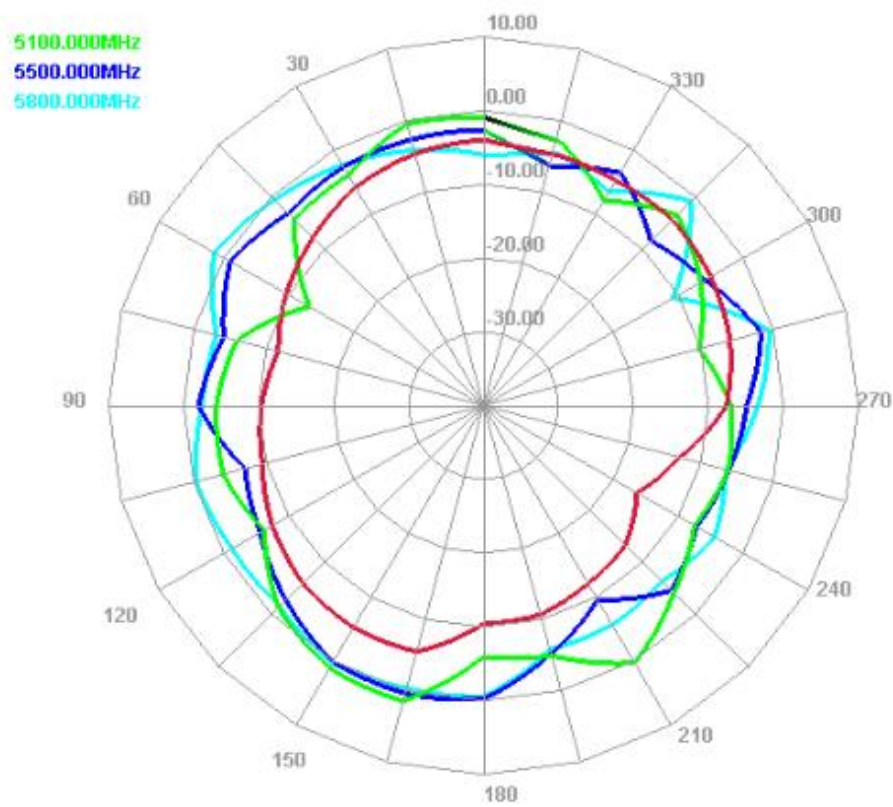
E2 Face





X-Y Plane
H Theta=90

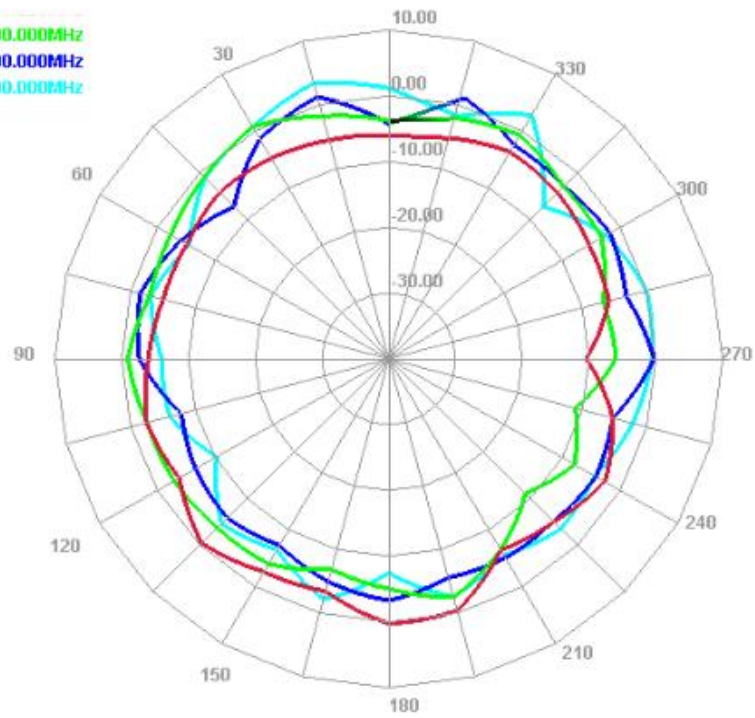
Horizontal



**X-Z Plane
V Phi=0**

E1 Face

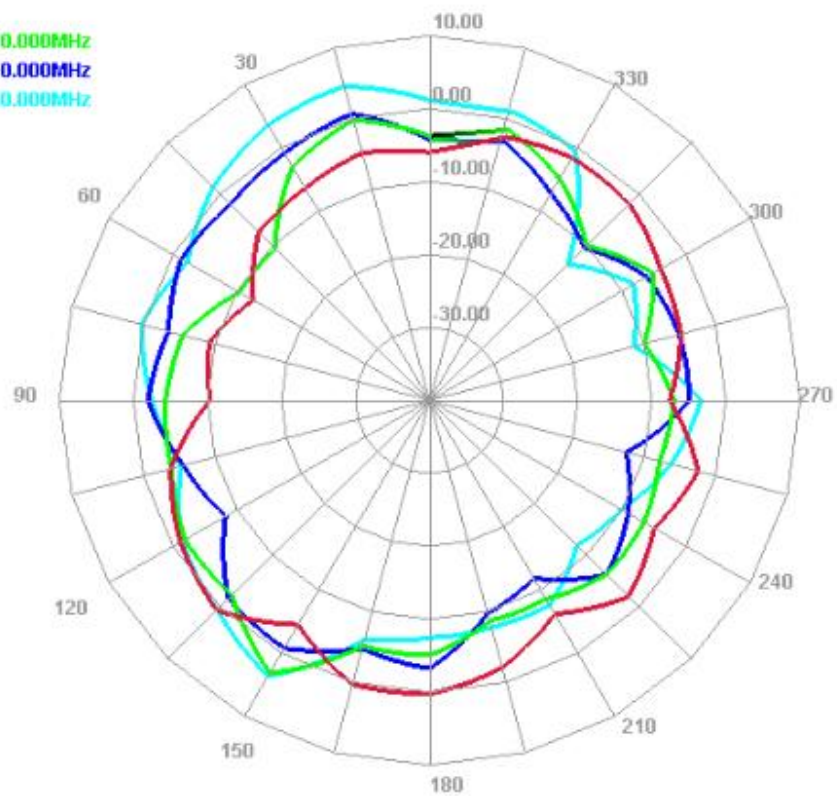
5100.000MHz
5500.000MHz
5800.000MHz



**Y-Z Plane
V Phi=90**

E2 Face

5100.000MHz
5500.000MHz
5800.000MHz

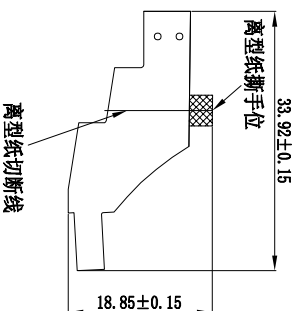
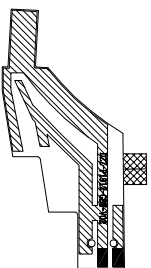


有源数据

OTA（TRP TIS）

WIFI OTA测试		WIFI OTA test	
测试频段 Test frequency	信道 Channel	TRP	TIS
WIFI 11a (54M)	36	12.16	-72.66
	149	12.81	-73.38
	165	12.44	-72.59
WIFI 11b (11M)	1	14.69	-83.06
	7	14.78	-82.89
	13	14.8	-83.06

1	<table><tr><td>RoHS</td></tr><tr><td>Compliant</td></tr><tr><td>G P</td></tr></table>	RoHS	Compliant	G P
RoHS				
Compliant				
G P				



备注:

1. FPC材料: 0.5oz电解铜, 0.5MLI PI 材质
2. 镀点处理: 镀金
3. 表面处理: 黑色油墨.
4. 背胶: 3M467 包装方式: 整版出货
5. 丝印字体: 白色
6. 未标公差尺寸, 模具冲出尺寸公差为 ± 0.1 , 铜箔线条尺

寸公差为 ± 0.05 , 标重点的孔公差为 ± 0.05 .

7. 涂为铜箔线路, 涂为穿孔, 涂的为馈点区域, 涂的为基材区域

深 圳 得 自 在 科 技 有 限 公 司											
SHEN ZHEN Be Comfortable CO., LTD											
		Third Angle		Project		P1912		Date		2023.6.14	
0~10		±0.05		○		0.02		Part Name		三合一	
10~18		±0.10		◎		ø 0.03		Part No.		P01-7105-R0A	
18~30		±0.12		⊥		0.02		Material		FPC	
30~40		±0.15		∇		0.04		Customer		K5330000082LA	
40~		±0.20		Angle		±0.5°		Approved by			
Location				Part NO				Unit		mm Scale 1:1 Rev A	

由 Autodesk 教育版产品制作

产品包装规范

日期：2023. 2. 15

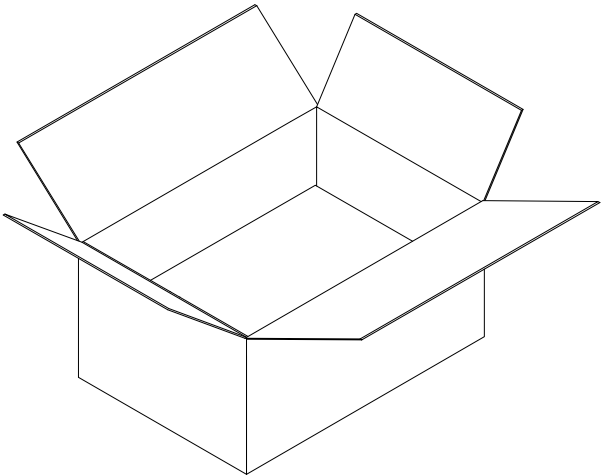
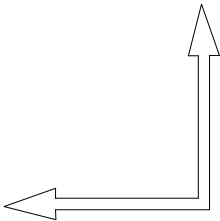
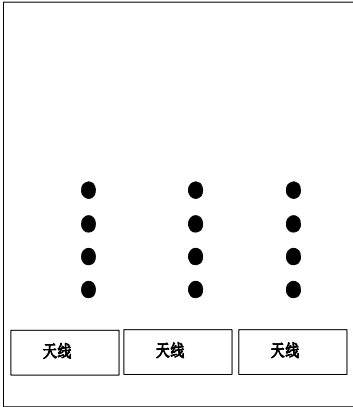
page: 1 of 1

成品类型：1912天线	版本：A

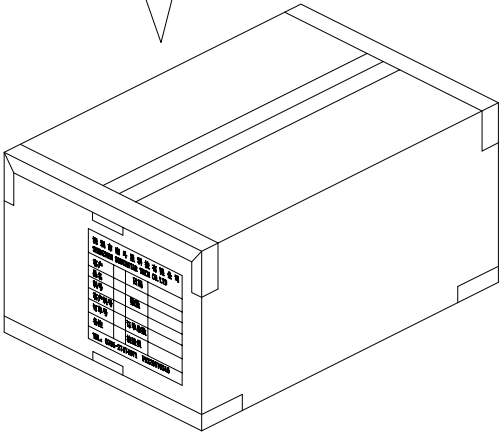
一：成品天线



二：用为微粘膜整版包装，一袋装300pcs。



三：装一箱，一箱装12000PCS（以实际包装为准）



四：封箱, 外箱贴我司生产标签和 ROHS标签.

批准：_____

确认：_____

拟制：_____

田进